

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/885,297B

Source: FW/b

Date Processed by STIC: 11/30/04

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IFW16

RAW SEQUENCE LISTING

DATE: 11/30/2004

PATENT APPLICATION: US/09/885,297B

TIME: 12:00:34

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3 <110> APPLICANT: INGRAM, LONNIE
 4 ZHOU, SHENGDE
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SIMULTANEOUS SACCHARIFICATION

AND

7 FERMENTATION
 9 <130> FILE REFERENCE: 49950-59776US
 11 <140> CURRENT APPLICATION NUMBER: 09/885,297B
 12 <141> CURRENT FILING DATE: 2001-06-19
 14 <150> PRIOR APPLICATION NUMBER: PCT/US01/19690
 15 <151> PRIOR FILING DATE: 2001-06-19
 17 <150> PRIOR APPLICATION NUMBER: 60/214,137
 18 <151> PRIOR FILING DATE: 2000-06-26
 20 <150> PRIOR APPLICATION NUMBER: 60/219,913
 21 <151> PRIOR FILING DATE: 2000-07-21
 23 <160> NUMBER OF SEQ ID NOS: 24
 25 <170> SOFTWARE: PatentIn version 3.2
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 28 <211> LENGTH: 450
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 30 <213> ORGANISM: Artificial Sequence
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 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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 39 cggtttagcca taaccatttt acctgtccgg cggccttaat accttgatca gatggttcgt 120
 41 ggtgttggtta ccttgccgaa gggcaccggt aaaaatgttc gcgtcgggtgt ttctgcccgt 180
 43 ggcccgaag ctgaagaagc taaagctgct ggtgcagaag ttgtcggcgc agaagacctg 240
 45 atggaagcca ttcaggcgcg cagcattgat ttcgatcgtg atgcccttta tactgaaatt 300
 47 gccttgcgct gccataatga agcagcctcc ggtgttttg cagatttaag cgctgcctga 360
 49 ttttcgtgat cctctagagt ctatgaaatg gagattcatt tatgcctctc tcttattcgg 420
 51 ataaccatcc agtcacccgc aagcttgcc 450
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 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 61 expression vector
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 66 aataccggca ttctgattac aggccgtggt ttgaatgogg tatgcagttt tgtctatgtc 120
 68 gcatggacat cccagacatt gggattgaac ctggttggtg tcatgctttt gattacgact 180
 70 ttgtctaccc tgatttcgga tattaccctg tttcagtcatt ggcaaaccctt gctgcattac 240

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74 atcagagccg atttttttag tgcggcgata ggtatgttg tagggttagg cggatatctg 360
76 attttaggca cttcaagatt gggatggcct gccgaggtca agccagatgc cttgctttgt 420
78 atgctgatta tactttttat gaatatcggc tgggtccaacc gggatgttgc ggctgtgtaa 480
80 ccgcttttaa ctggtcacta tttatgagtt tattacgacc tgcgtcagaa ccggagggtg 540
82 tggcattggt tattggcttc atatgccttt ggggtatttt ttgtttatat ggtgcctgac 600
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86 ggagcgcagca tttccgataa gaaaaatatt tcagagaaaa acgcccgttg aagggatgtg 720
88 gaaattcact ttaagcgta gttttaatga aatcctagac tccattttcc agcagggtgg 780
90 cacccttgct attggtagct cactgggggc tggggaagcc gctgtctatc gggtcgcgcg 840
92 ccagattagt aacggtttat ccaaaccagc acagatgatg atcggctaac atgcatccac 900
94 cggcagcacc ggccgtttta tgcttgggat tattgatatg ccgaaaagga tacaacatct 960
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262 gcatggacat cccagacatt gggattgaac ctgtttggtg tcatgctttt gattacgact      180
264 tttgctaccc tgatttcgga tattaccggt tttcagtcac ggcaaacctt gctgcattac      240
266 ggttcaaaaag cttttcagga aaaagatttt aaccaatttg atgatgtcct tgccttttgc      300
268 atcagagccg atttttttag tgcggcgata ggtatgttgg tagggttagg cggtatcttg      360
270 attttaggca cttcaagatt gggatggcct gccgaggtca agccagatgc cttgctttgt      420
272 atgctgatta tactttttat gaatatcggc tggccaacc gggatgttgc ggctgtgtaa      480
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280 ggagcgagca tttccgataa gaaaaatatt tcagagaaaa acgcccgttg aagggatgtg      720
282 gaaattcact ttaagcgtea gttttaatga aatcctagac tccattttcc agcaggggtg      780
284 cacccttgct attggtagct cactgggggc tggggaagcc gctgtctatc gggtcgcgcg      840
286 ccagattagt aacggtttat ccaaaccagc acagatgatg atcggctaac atgcatccac      900
288 cggcagcacc ggccgtttta tgcttgggat tattgatatg ccgaaaagga tacaacatct      960
290 ggaagaaaaa gacgaaggcc ggaataagcg ccattctgc aaaattgtta caacttagtc      1020
292 gcgccatcag ggaatgaaaa atcaatccgt ctttttcggc atgagcaacc aacattttca      1080
294 aggtatcatc ctgatgcgca atatcgcat cggttagcca taaccatttt acctgtccgg      1140
296 cggccttaat accttgatca gatggttcgt ggtgttgta ccttgccgaa gggcaccggt      1200
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304 ggtgttttgg cagatttaag cgctgcctga ttttcgtgat cctctagagt ctatgaaatg      1440
306 gagattcatt t atg cct ctc tct tat tct gat aac cat cca gtc atc gat      1490
307     Met Pro Leu Ser Tyr Ser Asp Asn His Pro Val Ile Asp
308     1             5             10

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310	agc	caa	aaa	cac	gcc	cca	cgt	aaa	aaa	ctg	ttt	cta	tct	tgt	gcc	tgt	1538
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312	15						20					25					
314	tta	gga	tta	agc	ctt	gcc	tgc	ctt	tcc	agt	aat	gcc	tgg	gcg	agt	gtt	1586
315	Leu	Gly	Leu	Ser	Leu	Ala	Cys	Leu	Ser	Ser	Asn	Ala	Trp	Ala	Ser	Val	
316	30					35				40					45		
318	gag	ccg	tta	tcc	gtt	agc	ggc	aat	aaa	atc	tac	gca	ggg	gaa	aaa	gcc	1634
319	Glu	Pro	Leu	Ser	Val	Ser	Gly	Asn	Lys	Ile	Tyr	Ala	Gly	Glu	Lys	Ala	
320					50					55					60		
322	aaa	agt	ttt	gcc	ggc	aac	agc	tta	ttc	tgg	agt	aat	aat	ggg	tgg	ggg	1682
323	Lys	Ser	Phe	Ala	Gly	Asn	Ser	Leu	Phe	Trp	Ser	Asn	Asn	Gly	Trp	Gly	
324				65					70					75			
326	ggg	gaa	aaa	ttc	tac	aca	gcc	gat	acc	gtt	gcg	tcg	ctg	aaa	aaa	gac	1730
327	Gly	Glu	Lys	Phe	Tyr	Thr	Ala	Asp	Thr	Val	Ala	Ser	Leu	Lys	Lys	Asp	
328			80					85				90					
330	tgg	aaa	tcc	agc	att	gtt	cgc	gcc	gct	atg	ggc	gtt	cag	gaa	agc	ggg	1778
331	Trp	Lys	Ser	Ser	Ile	Val	Arg	Ala	Ala	Met	Gly	Val	Gln	Glu	Ser	Gly	
332		95					100				105						
334	ggg	tat	ctg	cag	gac	ccg	gct	ggc	aac	aag	gcc	aaa	gtt	gaa	aga	gtg	1826
335	Gly	Tyr	Leu	Gln	Asp	Pro	Ala	Gly	Asn	Lys	Ala	Lys	Val	Glu	Arg	Val	
336	110					115					120					125	
338	gtg	gat	gcc	gca	atc	gcc	aac	gat	atg	tat	gtg	att	att	gac	tgg	cac	1874
339	Val	Asp	Ala	Ala	Ile	Ala	Asn	Asp	Met	Tyr	Val	Ile	Ile	Asp	Trp	His	
340					130						135				140		
342	tca	cat	tct	gca	gaa	aac	aat	cgc	agt	gaa	gcc	att	cgc	ttc	ttc	cag	1922
343	Ser	His	Ser	Ala	Glu	Asn	Asn	Arg	Ser	Glu	Ala	Ile	Arg	Phe	Phe	Gln	
344				145					150					155			
346	gaa	atg	gcg	cgc	aaa	tat	ggc	aac	aag	ccg	aat	gtc	att	tat	gaa	atc	1970
347	Glu	Met	Ala	Arg	Lys	Tyr	Gly	Asn	Lys	Pro	Asn	Val	Ile	Tyr	Glu	Ile	
348			160					165				170					
350	tac	aac	gag	ccg	ctt	cag	gtt	tca	tgg	agc	aat	acc	att	aaa	cct	tat	2018
351	Tyr	Asn	Glu	Pro	Leu	Gln	Val	Ser	Trp	Ser	Asn	Thr	Ile	Lys	Pro	Tyr	
352		175					180				185						
354	gcc	gaa	gcc	gtg	att	tcc	gcc	att	cgc	gcc	att	gac	ccg	gat	aac	ctg	2066
355	Ala	Glu	Ala	Val	Ile	Ser	Ala	Ile	Arg	Ala	Ile	Asp	Pro	Asp	Asn	Leu	
356	190					195					200				205		
358	att	att	gtc	ggg	acg	ccc	agt	tgg	tcg	caa	aac	gtt	gat	gaa	gcg	tcg	2114
359	Ile	Ile	Val	Gly	Thr	Pro	Ser	Trp	Ser	Gln	Asn	Val	Asp	Glu	Ala	Ser	
360					210					215				220			
362	cgc	gat	cca	atc	aac	gcc	aag	aat	atc	gcc	tat	acg	ctg	cat	ttc	tac	2162
363	Arg	Asp	Pro	Ile	Asn	Ala	Lys	Asn	Ile	Ala	Tyr	Thr	Leu	His	Phe	Tyr	
364				225					230					235			
366	gcg	gga	acc	cat	ggg	gag	tca	tta	cgc	act	aaa	gcc	cgc	cag	gcg	tta	2210
367	Ala	Gly	Thr	His	Gly	Glu	Ser	Leu	Arg	Thr	Lys	Ala	Arg	Gln	Ala	Leu	
368			240					245				250					
370	aat	aac	ggg	att	gcg	ctt	ttc	gtc	acc	gag	tgg	ggc	gcc	gtt	aac	gcg	2258
371	Asn	Asn	Gly	Ile	Ala	Leu	Phe	Val	Thr	Glu	Trp	Gly	Ala	Val	Asn	Ala	
372		255					260					265					
374	gac	ggc	aat	ggc	gga	gtg	aac	cag	aca	gat	acc	gac	gcc	tgg	gta	acg	2306

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Please Note:

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L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3335
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3395
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3455
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3515
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3575
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3635
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L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3875
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3935
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3995
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4055
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4115
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4175
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4235
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9451
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9511
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9571
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L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9691
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9751
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9811
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9871
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9931
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9991
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10051
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10111
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10171
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10231
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L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10411
L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10471
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10531
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10591
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10651
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10711
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10771
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10831
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10891
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10951
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11011
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11071
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11131
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11191
L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11251

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L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11431
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11491
L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300
L:898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:420
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:540
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:600
L:908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:660
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:720
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:780
L:914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:840
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:900
L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:960
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1020
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1140
L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5700
L:1078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5760
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5820
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5880
L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5940
L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6000
L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6060
L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6120
L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6180
L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6240
L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6300
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L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6600
L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6660
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L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6840
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6900
L:1118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6960
L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7020
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7080
L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7140
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7200
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7260

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L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7440
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7500
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7560